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DETAILED ACTION

1. This Office Action is in response to the Amendment filed June 2, 2006. Claims 1-36 and 46-53 have been canceled and Claims 37-45 are now pending.

Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Paul A. Ragusa on August 17, 2006.

3. The application has been amended as follows:

Claim 41, line 3, change "offset value (measured" to --offset value, wherein measured--;

Claim 41, line 5, change "electro osmotic offset)." To --electro osmotic offset. --;
Claim 42, line 1, change "1Hz.+-.1Hz" to --1Hz ± 1Hz--.

Allowable Subject Matter

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4. Claims 37-45 are allowed.

5. The following is an examiner's statement of reasons for allowance:

The present claims are allowable over the closest references: DeRemigis (US 4,097,153).

A ca	A capillary particle electrophoretic mobility distribution determining apparatus		
comprising			
1	a holder for a capillary cell adapted to contain a dispersion		
2	a <u>light source</u>		
3	a detector adapted to detect light scattered from a detection zone of the capillary		
4	electric field generating electrodes adapted to generate an electric field in the		
	region of the detection zone		
5	a controller adapted to control the electric field applied by the electrodes,		
	wherein the controller is adapted to apply an electric field at a first relatively low		
	frequency and at least a second relatively high frequency,		
	the first frequency being low enough that better velocity distribution resolution is		
	achieved than could be achieved at the second frequency and		
	the second frequency being high enough that the measured velocoity distribution		
	is substantially unaffected by electro-osmotic flow		
6	a signal processor adapted to process the signals detected in use by the detector		
	to determine a velocity mobility distribution,		
	wherein the porocssor is adapted in use to modify the particle velocity distribution		
	spectrum obtained at the first frequency by shifting it by an offset amount to		
	remove the electro-osmotic velocity, the offset amount being determined using		
	information from measurements at both the first and second frequencies of field		
	reversal		
	(1 : 07)		

(summary of claim 37)

DeRemigis discloses an apparatus to measure the electrophoretic mobility of particles suspended in a fluid medium, wherein the particles in a fluid medium are subjected to an electric field alternating between a first and second intensity under a coherent electromagnetic radiation to produce scattered radiation, the coherent radiation and the scattered radiation being directed to a detector to produce a spectrum of heterodyne signal in which the spectral composition with the first intensity of applied electric field is compared with the spectral composition obtained with the second intensity of applied electric field to provide a measurement of the electrophoretic mobility of the suspended particles (abstract; claim 1). However, DeRemigis does not teach or fairly suggest a capillary particle electrophoretic mobility distribution determining apparatus comprising using two specifically different frequencies to remove the electro-osmotic velocity on a capillary cell and obtaining the electrophoretic mobility of particles.

In light of the above discussion, it is evident as to why the present claims are patentable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

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6. Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to Ling-Siu Choi whose telephone number is 571-272-

1098.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Wu, can be reach on 571-272-1114.

LING-SUI CHOI PRIMARY EXAMINER

August 17, 2006